

MODIS TECHNICAL TEAM MEETING

September 29, 1995

The MODIS Technical Team Meeting was chaired by Vince Salomonson. Present were Dorothy Hall, Dick Weber, Barbara Conboy, David Herring, Steve Ungar, Al Fleig, Ed Masuoka, and Wayne Esaias.

1.0 SCHEDULE OF EVENTS

Oct. 11 - 12	Test Data Workshop
Oct. 30	MODIS Quarterly Software Management Review
Oct. 30 - Nov. 3	EOSDIS Incremental Design Review for Release B System
Nov. 8 - 9	Workshop on Subsetting Data
Nov. 15 - 17	MODIS Science Team Meeting at GSFC, Building 8 Auditorium

2.0 MINUTES OF THE MEETING

2.1 MODIS Project Reports

Weber reported that next week the aft optics and radiative cooler for the MODIS Protoflight Model (PFM) will be placed in thermal vacuum. SBRC plans to test the temperature performance of the cooler to determine whether the infrared background saturation problem has been solved.

Salomonson asked whether the light leaks in bands 5, 6, and 26 have been corrected. Weber responded that SBRC has not yet identified the cause of that problem, but they believe it is optical in nature and not electrical. Weber added that the Band 26 filters are being made now and will be put into the PFM in December, provided they are better.

Salomonson asked for Weber's concept of the near and far field scatter problem in MODIS. Weber responded that all scatter is due to roughness. Contamination--dirt and particles on the surface of the mirrors and optics--is likely to be the major contributor to scatter, whether near or far field.

Weber reported that SBRC is obtaining a redesigned NIR lens assembly which will be kept as a backup for the Protoflight Model (PFM).

Weber told the Team that there was a Calibration Peer Review at SBRC a few weeks ago, and a Quarterly Management Review at Goddard on Sept. 20--both went well. At those meetings, SBRC presented their new Integration and Testing Schedule. Weber stated that SBRC plans to deliver the PFM on schedule.

Weber reported that SBRC established that the Engineering Model scan mirror motor can be balanced to up to 5 times better than spacecraft specs. So this may no longer be an issue.

Weber announced that there is the possibility that the EOS Direct Broadcast Plan will be modified. He noted that the NASA Deep Space Network objects to EOS AM-1 using the currently planned direct broadcast method because there may be spectral and spatial interference with their efforts. The plan is currently undergoing review. He also noted that the direct broadcast for EOS PM-1 will likely be different from that of AM-1.

2.2 SDST Reports

Masuoka reported that SDST is currently hosting a workshop on testing MODIS beta software. Representatives from Eros Data Center and the GSFC DAAC are in attendance and providing feedback. He told the Team that he expects to have all beta software delivered by Oct. 15, 1995.

Masuoka stated that the Software Management Plan and the Data Management Plan will be forwarded to the MODIS Team Leader for approval next week. Masuoka noted in his review of these minutes that the Software Management Plan is still with MCST for their review but will be forwarded to the Team Leader once MCST comments are received and incorporated.

Salomonson asked SDST to prepare a strawman evaluation as to how best to compartmentalize the processing of data products for the DAAC recompetition. He added that certain products, such as Level 1 and the MODIS cloud mask, should probably not be included in the recompetition. It was agreed that a draft of the SDST evaluation would be submitted by Oct. 17.

2.2.1 Data Validation

Fleig noted that according to the MODIS Team Leader Agreement, MODIS will submit its Validation Plan on Dec. 1, 1995. He said that there was a philosophical discussion on validation recently at the CERES Meeting. What products should be validated, and why? Fleig stated that the concept discussed at the CERES Meeting is that Dave Starr, EOS Validation Scientist, will collect and evaluate each EOS instrument validation plan, hold a workshop, and then formulate a final EOS Validation Plan that integrates the essential points of each team's plans. An EOS-wide Validation Plan would then feed into the Announcement of Opportunity for people to participate in validation. Fleig said he is working with Michael King, EOS Senior Project Scientist, to develop a boilerplate of what the individual teams' validation plans should contain.

2.2.2 Simulated Data

Fleig announced that Steve Ungar and he are working on a plan for MODIS data simulation, which will be complete in about 3 weeks.

2.3 Snow and Ice Workshop Proceedings

Hall reported that she is almost finished writing the proceedings from the Snow and Ice Workshop. She submitted the first draft to Salomonson for review and hopes to distribute it soon, along with a summary of recommendations from the workshop.

2.4 Ocean Color Steering Group Proposed

Esaias reported that in October a proposal will be submitted at the CEOS Meeting to form an international steering group for ocean color to help coordinate various ocean color missions. The proposal includes the recommendation to use MOBY as a prime intercalibration device, and Lanai, HI, as a prime intercalibration site.

3.0 ACTION ITEMS

1. *SDST*: prepare a strawman evaluation (by Oct. 17) as to how best to compartmentalize the processing of data products for the DAAC recompetition.

3.1 Action Items Carried Forward

2. *Dave Diner & Robert Wolfe*: MODIS and MISR need to settle on a protocol(s) to deal with Level 1 and Level 2 data sets to be passed between the two teams to produce joint products. Report at the next SWAMP Meeting.
3. *Fleig and Ungar*: Interact with the group leaders to develop a MODIS data simulation plan for review at the next Science Team Meeting. [Work on this item is still in progress and a plan is expected in about 3 weeks.]

3.2 Closed Action Items

1. *MAST*: Prepare the Agenda for the next MODIS Science Team Meeting.
2. *Masuoka*: Cost out bringing up a MODIS test string in January 1996 at EDC and forward the information to Steve Kempler.
3. *MCST*: Consider Yoram Kaufman's concerns and prepare an explanation or brief presentation for the Technical Team as to which unit is best suited for MODIS' Level 1 data--radiance or reflectance.